Nuclear Material Stabilization and Disposition (RL-0011)

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Completed Decontamination of Room 135

Completed Decontamination of Room 134 Hoods 1 & 2

Overview

This section addresses work in Project Baseline Summary RL-0011, *Nuclear Material Stabilization and Disposition*.

NOTE: Unless otherwise noted, all information contained herein is as of the end of January 2005.

Notable Accomplishments

Disposition the Plutonium Finishing Plant (PFP) Facility

Legacy Holdup: Disposition of 57 percent of legacy plutonium holdup material was completed.

232-Z: The removal of 232-Z process equipment and glove box cleanout were completed, and glove box decontamination was initiated.

234-5Z: Room 135 hoods one through four, and Room 134 hoods one and two, have been cleaned and decontaminated to low level waste criteria. A total of 13 hoods and/or glove boxes in the 234-5Z building now meet the low-level waste criteria.

Nuclear Materials Shipped: Additional miscellaneous nuclear materials were shipped, bringing the total shipped to 89 items.

Issues

Special Nuclear Material (SNM) De-inventory Delay: DOE authorization to allow shipment of Hanford plutonium material to the Savannah River Site (SRS) due by August 30, 2004, has not been received. The continued delay in authorization to ship will result in a delay in completion of the SNM de-inventory of the PFP complex. The Record of Decision, a key document required by DOE prior to issuing the authorization for Hanford to ship SNM to SRS, is now expected in the March 2005 timeframe.

FY 2005 Funds vs. Spend Forecast (\$M)

	Projected FY 2005 Funding	FY 2005 Fiscal Year Spend Forecast	Variance
Nuclear Materials Stabilization & Disposition	\$ 210.7	\$ 211.0	\$ -0.3

FY 2005 Schedule/Cost Performance (\$M)

	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion
Nuclear Materials Stabilization & Disposition	\$62.0	\$59.6	\$54.4	-\$2.4	-3.9%	\$5.2	8.7%	\$207.4

Numbers are rounded to the nearest \$0.1M and include the closure services allocation.

FY 2005 Schedule/Cost Performance, continued

Schedule Performance (-\$2.4M/-3.9%): Primary contributors to the unfavorable schedule performance include:

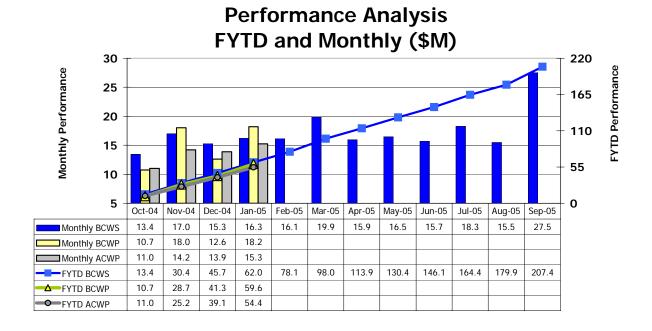
- Legacy Holdup difficulties in plug removal from 26" vacuum; high dose rates within HA-9A.
- Deactivation and Decommissioning (D&D) activities behind schedule due to delays in 232-Z, 241-Z and 236-Z; and,
- Delays in solid waste disposal activities due to delayed D&D activities. This negative schedule variance is partially offset by ahead-of-schedule progress on activities to transition 234-5Z.

Cost Performance (+\$5.2M/+8.7%): Primary contributors to the favorable cost variance include:

- Delayed billing for solid waste disposition;
- Use of existing lab and Special Nuclear Material de-inventory teams to accelerate 234-5Z process equipment removal;
- Efficiencies in 236-Z project support and canyon tank planning and procurement; and
- Lower cost in transition operations support due to reduced staffing levels;

These positive cost variances are partially offset by:

- Increased costs in 232-Z and 241-Z D&D work to support recovery actions from earlier schedule delays; and
- Fissile material movement outage and use of overtime to recover schedule in legacy plutonium holdup removal and disposition activities.



Milestone Achievement

Number	Milestone Title	Туре	Due Date	Actual Date	Forecast Date	Status/ Comments
TRP-05-501 TRP-05-506	Discontinue Waste Discharges from the 241-Z Tanks to Tank Farms	TPA PI	6/30/05	12/13/04		Complete
TRP-05-503	Complete Deinventory of DOE-STD- 3013 Containers & Unirradiated Fuel by Shipment to SRS or Other Approved Location	PI	9/30/06		5/31/07	BCR Submitted to Document Change
TRP-05-504	Remove and Disposition Pu Holdup in Process Equipment at PFP	PI	9/30/05		7/31/05	Ahead of Schedule
TRP-05-505	Transition 10 Facilities to Slab-on- Grade	PI	9/30/05		6/30/05	Ahead of Schedule
TRP-06-500	Decontaminate Glovebox HA-20MB	PI	3/31/06	10/28/04		Complete
TRP-06-501	Complete 100% Legacy Pu Holdup Removal and Disposition	TPA	9/30/06		7/31/05	Ahead of Schedule
TRP-06-507 TRP-06-502	Transition 232-Z Bldg Incinerator to Slab-on-Grade	PI TPA	3/31/06 9/30/06		6/19/06	Behind Schedule Ahead of Schedule
TRP-06-503	Remove Remaining SNM From PFP Such That Protected Area Not Required	PI	9/30/06		5/31/07	BCR Submitted to Document Change
TRP-06-509	Disposition Miscellaneous PFP Nuclear Materials	PI	9/30/06		9/30/06	Letter Submitted to Transfer Certain Materials to 3013 Deinventory
TRP-06-510	Transition 241-Z/ZA Facility to Demolition Ready	PI	9/30/06		9/30/06	On Schedule
TRP-06-511	Remove or Decontaminate 236-Z Pencil Tanks	PI	9/30/06		9/30/06	On Schedule
TRP-06-512	Remove or Decontaminate the 236-Z Process Equipment in Rooms 50 & 60	PI	9/30/06		9/30/06	On Schedule
TRP-06-513	Remove or Decontaminate the Remaining 236-Z Process Equipment	PI	9/30/06		9/30/06	On Schedule
TRP-06-514	Remove or Decontaminate 189 Gloveboxes and Hoods in 234-5Z	PI	9/30/06		9/30/06	On Schedule
TRP-06-515	Complete 242-Z Initial Entry & Characterization	PI	9/30/06		9/30/06	On Schedule
TRP-06-516	Cleanout Pu & Am Contaminated Gloveboxes and Tanks in 242-Z	PI	9/30/06		9/30/06	On Schedule
TRP-06-517	Dispose of Approximately 600 Pu Nitrate Containers at PFP	PI	9/30/06		9/30/06	On Schedule